

PHILLIPS SPRING HAMMER THE FIRST AND ORIGINAL HIGH SPEED HAND DRILLING MACHINE

**FIG. 3487**

For drilling holes in concrete, brick and stone, in walls, floors and ceilings, for expansion bolts, wall bolts, plugs, pipes, pipe hangers, wires, etc.

The action and efficiency of this tool in delivering a great number of rapid blows squarely on end of drill is identical to the air hammer. No time or expense in connecting up as it requires no piping, wiring or hose, and is ready for work instantly at all times. Makes perfect round, smooth-finished holes. Can be carried to the job in kit with other tools.

No. 2—Spring Hammer for holes up to $\frac{7}{8}$ inch, approximate weight, 9 lbs.

Price, each \$17.50

No. 3—Spring Hammer for holes up to $1\frac{1}{4}$ inch, approximate weight, 12 lbs.

Price, each 21.00

PHILLIPS STAR DRILLS

Prices, each
Diameter of Cutting Edge, Inches

**FIG. 3488**

Length, Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
8	.44	.50	.55	.60	.66	.72	.77	.83	.88	.93	.99	
18	...	...	.83	.85	.92	1.00	1.08	1.15	1.23	1.30	1.38	
24	...	...	...	...	.99	1.08	1.15	1.24	1.32	1.41	1.48	

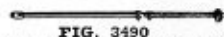
PHILLIPS HOLLOW DRILLS

Prices, each
Diameter of Cutting Edge, Inches

**FIG. 3489**

Length, Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$
8	1.21	1.26	1.32	1.37	1.43	1.48	1.54	1.92	2.20
18	1.69	1.77	1.85	1.92	2.00	2.08	2.16	2.69	3.08
24	1.81	1.90	1.98	2.06	2.14	2.20	2.31	2.88	3.30

EXTENSION

**FIG. 3490**

For use with Spring Hammer for drilling holes overhead in concrete ceiling. Holds the hammer and drill to the work and automatically follows up as the hole is drilled. Price, \$7.50.

Typical way of
drilling wall
holes.

**FIG. 3491**

Typical way of
drilling holes over-
head in concrete
ceilings and
through floors.

**FIG. 3492**

PHILLIPS OVERHEAD DRILL

A powerful and rapid tool for drilling holes up to 2 inches diameter in concrete ceilings and through floors.

With a special corner attachment it is possible to drill holes up to 2 inches diameter through floors close in corners and near walls, beams and columns, for steam risers, returns, etc.

Information on request.